# **DECLARATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <a href="SCANNING OPTICAL DETECTION SYSTEM">SCANNING OPTICAL DETECTION SYSTEM</a>, the specification of which

(Check One):	<u></u>	is attached hereto. was filed on <u>May 1, 1997</u>	as
		Application Serial No. <u>08/846,876</u>	
		and was amended on (if applicable) September 18, 1997	

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 printed on the reverse side of this Declaration. I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Application No.	. Country	Date of Filing	Priority Claimed	
••			Yes	No
·				

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

Application No.	Date of Filing	Status-Patented, Pending or Abandoned
CIP of Serial No. 08/534,454, which is a CIP of 08/304,657, which is a CIP of 08/271,882, which is a CIP of 08/146,504	September 27, 1995 September 9, 1994 July 7, 1994 November 1, 1993	Pending Patented as 5,632,957 Pending, allowed Patented as 5,605,662

#### APPLICABLE STATUTES & RULES

#### 37 CFR 1.56: DUTY TO DISCLOSE INFORMATION MATERIAL To PATENTABILITY.

A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by ss 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct The Office encourages applicants to carefully examine:

- prior art cited in search reports of a foreign patent office in a counterpart application, and
- the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim (2) patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section information is material to patentability when it is not cumulative to information already of record or being made of record in the application,
  - it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or (1)
  - (2)
- It refutes, or is inconsistent with, a position the applicant takes in;
  (i) Opposing an argument of unpatentability relied on by the Office, or
  - Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application:
  - Each attorney or agent who prepares or prosecutes the application; and (2)
  - Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with theinventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor. (d)

#### 35 U.S.C. 102: CONDITIONS FOR PATENTABILITY; NOVELTY AND LOSS OF RIGHT TO PATENT

A person shall be entitled to a patent unless-

- the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent, or
- the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year (h) prior to the date of the application for patent in the United States, or
  - he has abandoned the invention, or
- the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns (d) in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or
- the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant (e) for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
  - he did not himself invent the subject matter sought to be patented, or
- before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining (a) priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

#### 35 U.S. C. 103: CONDITIONS FOR PATENTABILITY; NON-OBVIOUS SUBJECT MATTER

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

### 35 U.S.C. 119: BENEFIT OF EARLIER FILING DATE IN FOREIGN COUNTY; RIGHT OF PRIORITY (Applicable Portion)

An application for patent for an invention filed in this country by any person who has, or whose legal representatives or assigns have, previously regularly filed an application for a patent for the same invention in a foreign county which affords similar privileges in the case of applications filed in the United States or to citizens of the United States, shall have the same effect as the same application would have if filed in this county on the date on which the application for patent for the same invention was first filed in such foreign county, if the application in this county is filed within twelve months from the earliest date on which such foreign application was filed; but no patent shall be granted on any application for a patent for an invention which has been patented or described in a printed publication in any country more than one year before the date of the actual filling of the application in this country, or which had been in public use or on sale in this country more than one year prior to such filing.

### 35 U.S.C. 120: BENEFIT OF EARLIER FILING DATE IN THE UNITED STATES

An application for patent for an invention disclosed in the manner provided by the first paragraph of section 112 of this title in an application previously filed in the United States, or as provided by section 363 of this title, by the same invention shall have the same effect, as to such invention, as though filed on the date of the prior application, if filed before the patenting or abandonment of or termination of proceedings on the first application or on an application similarly entitled to the benefit of the filling date of the first application and if it contains or is amended to contain a specific reference to the earlier filed application.

### 35 U.S.C. 112: SPECIFICATION (Applicable Portion)

The Specification shall contain a written description of the invention, and of the making and process of making and using it, in such full, clear, concise, and exact terms as to enabler any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification shall conclude with one or more claims particularly pointing out and distinctive claiming the subject matter which the applicant regards as his invention.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

### SIGNATURE(S)

Full name of sole or first inventor	ROBERT D. JUNCOSA
Inventor's signature	www.
Date 9/26/97	Country of Citizenship USA
Residence Mission Viejo, California	
Post Office Address26892 Via Grande,	Mission Viejo, California 92691
Full name of second joint inventor	WILLIAM F. BUTLER
Inventor's signature <u>Milleam</u>	Dutle
Date 9/26/97	Country of Citizenship USA
Residence <u>Carlsbad, California</u>	·
Post Office Address7577 Caloma Circle	e, Carlsbad, California 92009
Full name of third joint inventor	LEI WU
Inventor's signature	1
Date 18/21/97	Country of Citizenship China
Residence <u>San Diego, California</u>	
	Lane, San Diego, California 92128
Full name of fourth joint inventor	ROBERT H. CORMACK
Inventor's signature	emili
Date 17/26/97	Country of Citizenship <u>USA</u>
Residence Boulder, Colorado	
Post Office Address <u>5305 Holmes Place</u>	e. Boulder, Colorado 80303
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Docket _	223/024		
	Patent		

## **POWER OF ATTORNEY**

Nanogen, Inc.	, assign	ee(s) of the applica	ation for United States l	Letters Patent for
	L DETECTION SYSTEM	И		
		(Title)		
by Robert D. Juncosa; W	illiam F. Butler; Lei Wu;	(Inventors)	ormack	
executed on ev	ven date herewith, or			
X having Serial l	No. <u>08/846,876</u> , filed	<u>May 1, 1997</u> ,		
a copy of the assignment of w substitution and revocation, to connected therewith:	which is attached hereto, or prosecute this application	do(es) hereby appo on and transact all	oint as attorneys of rec business in the Patent	ord with full power of and Trademark Office
The registered attorneys listed 4700, Los Angeles, California	d below and members of or associate 90071, Registration No. 11,611	ciates in the law firm of 1, whose members are a	f LYON & LYON, 633 West all admitted to the Bar of the	: Fifth Street, Suite State of California:
Roland N. Smoot Conrad R. Solum, Jr. James W. Geriak Robert M. Taylor, Jr. Samuel B. Stone Pouglas E. Olson Robert E. Lyon Rabert C. Weiss Richard E. Lyon, Jr. John D. McConaghy William C. Steffin Coe A. Bloomberg  Reg. No. 18,718 Reg. No. 20,467 Reg. No. 20,233 Reg. No. 19,848 Reg. No. 19,297 Reg. No. 22,798 Reg. No. 24,171 Reg. No. 24,171 Reg. No. 24,939 Reg. No. 26,300 Reg. No. 26,300 Reg. No. 26,300 Reg. No. 26,605	J. Donald McCarthy John M. Benassi James H. Shalek Allan W. Jansen Robert W. Dickerson Roy L. Anderson David B. Murphy James C. Brooks Jeffrey M. Olson Steven D. Hemminger Jerrold B. Reilly John A. Rafter Kenneth H. Ohriner	Reg. No. 25,119 Reg. No. 27,483 Reg. No. 29,749 Reg. No. 29,395 Reg. No. 29,914 Reg. No. 30,240 Reg. No. 31,125 Reg. No. 30,790 Reg. No. 30,755 Reg. No. 30,755 Reg. No. 31,653 Reg. No. 31,646	Mary S. Consalvi Lois M. Kwasigroch Lawrence R. LaPorte Robert C. Laurenson Carol A. Schneider Hope E. Melvule Richard J. Warburg Michael J. Wise Kurt T. Mulville James P. Brogan Corrine M. Freeman John C. Kappos Kenneth S. Roberts Charles C. Fowler James K. Sakaguchi Lorraine Linford	Reg. No. 32,212 Reg. No. 35,579 Reg. No. 38,948 Reg. No. 34,206 Reg. No. 34,923 Reg. No. 34,874 Reg. No. 32,327 Reg. No. 32,327 Reg. No. 37,194 Reg. No. 37,625 Reg. No. 37,625 Reg. No. 37,625 Reg. No. 37,861 Reg. No. 38,283 Reg. No. 39,675 Reg. No. 39,675 Reg. No. 41,285 Reg. No. 35,939
Address correspondence to:	LYON & LYON Attention: David B. M 633 West Fifth Street Los Angeles, Californ (213) 489-1600	, Suite 4700 nia 90071-2066		
I, the undersigned, de corporation, partnership or ot above-identified assignee is the recordation concurrently here in the chain of title, and to the	owner of this application with. In accordance with	norized to make thing the by reason of an ass 37 CFR § 3.373(b)	is appointment on behal signment being filed wi b), I certify that I have r interest is in the above-i	th the Patent Office for reviewed all documents

a he or 1ts nd I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full Name of Assignee	Nanogen, Inc.	
Post Office Address	10398 Pacific Center Court, San Diego, Califo	ornia 92121
Signature of Deci Assignee	Lang & Genthand	Date (2/3/9)

## **ASSIGNMENT**

WHEREAS, We, ROBERT D. JUNCOSA, a citizen of the United States, residing at 26892 Via Grande, Mission Viejo, California 92691, WILLIAM F. BUTLER, a citizen of the United States, residing at 7577 Caloma Circle, Carlsbad, California 92009, LEI WU, a citizen of China, residing 14021 Capewood Lane, San Diego, 92128, and ROBERT H. CORMACK, a citizen of the United States, residing at 5305 Holmes Place, Boulder, Colorado 80303, (hereinafter referred to as "ASSIGNORS"), have invented and own a certain invention entitled "SCANNING OPTICAL DETECTION SYSTEM", for which application for Letters Patent of the United States of America has been filed on May 1, 1997, under Serial No. 08/846,876 and

WHEREAS, NANOGEN, INC., a corporation organized and existing under and by virtue of the laws of the State of California and having its principal place of business at 10398 Pacific Center Court, San Diego, California 92121 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto, to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be

granted, including all priority rights under the International Convention; and ASSIGNORS, hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent and any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon request of ASSIGNEE, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or legal proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its designated legal representative any and all papers, instruments, declarations or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

WITNESS my hand at <u>Pun</u>	<u>ceton,</u>	New Jer	sey, this # day of <u>December</u> , 1997.
			Robert D. Juncosa
STATE OF NEW JERSEY	)	SS.	
COUNTY OF Mercer		20.	

On 12/4/97 before me, Debra Babashal Notary Public, personally appeared Robert D Juncosa personally known to me OR \_ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public in and for said County and State

Seal

DEGRA H RABASHAK

NOTARY PUBLIC OF NEW JERSEY

MY COMMISSION EXPIRES AUGUST 12 2001

WITNESS my hand at Sand of the California, this 31 st day of October, 1997.						
•			Hilliam & Butle			
			William F. Butler			
STATE OF CALIFORNIA	)	SS.				
COUNTY OF SAN DIEGO						

On Oct. 31, 1997 before me, C. CAUNESS, Notary Public, personally appeared WILLIAM F. BUTLER personally known to me OR proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Seal



Notary Public in and for said County and State

WITNESS my hand at Sun Diego, California	a, this $\frac{2}{2}$ day of $\frac{0c+.}{.}$ , 1997.
	Lei Wu
STATE OF CALIFORNIA )	
COUNTY OF SAN DIEGO ) ss.	
On 10 21 47 before me, C.CAUINES  LEI W W personally known to me OR  evidence to be the person(s) whose name(s) is/are-si acknowledged to me that he/she/they executed the s and that by his/her/their signature(s) on the instrume which the person(s) acted, executed the instrument.	ubscribed to the within instrument and came in his/her/their authorized capacity(ies),
WITNESS my hand and official seal.	Chenly & Carai
Seal  CHERILYN J. CAVINESS  Commission #1079907  Notary Public — California San Diego County  My Comm. Expires Dec 7, 1999	Notary Public in and for said County and State

Seal

WITNESS my hand at	, Cali	fornia, this da	y of	, 1997.
		( <u>∧ ¿ Kú</u> Robert H.		New 2
STATE OF CALIFORNIA	)	s.		
COUNTY OF		<b>.</b>		

On November before me, Elaine F. Fowler Notary Public, personally appeared Robert H. Cornage Personally known to me OR \_ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public in and for said County and State

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My Commission Expires Sizi 07, 1980

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